

In re Appln. of Hinken

Application No. Unassigned (U.S. National Phase of PCT/EP99/07440)

sub 310 cancelled
~~14.~~ The testing device of claim ~~12~~¹⁵, wherein the measuring sensors comprise a Squid sensor.

~~15.~~ The testing device of claim ~~14~~¹⁵, wherein the Squid sensor is a Squid magnetometer.

A/ ~~16.~~ The testing device of claim ~~14~~¹⁷, wherein Squid sensor comprises a Squid gradiometer.

~~17.~~ The testing device of claim ~~13~~¹⁶, wherein the measuring sensors comprise a Squid sensor.

~~18.~~ The testing device of claim ~~17~~²⁰, wherein the Squid sensor is a Squid magnetometer.

~~19.~~ The testing device of claim ~~17~~²⁰, wherein Squid sensor comprises a Squid gradiometer.

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~~20.~~ A method for detecting and localising material inhomogeneities in electrically conductive samples, wherein the sample is brought to a predetermined temperature profile and the magnetic field outside the sample is contactlessly measured, wherein the magnetic field outside the sample is measured with several measuring sensors which are provided at a different distance to the sample.

sub 32
~~21.~~ The method of claim ~~20~~²³, wherein the sample is rotated.

~~22.~~ The method of claim ~~20~~²³, wherein from the polarity of the measuring signal and the direction of the temperature gradient one may infer the type of homogeneity.

~~23.~~ The method of claim ~~21~~²⁴, wherein from the polarity of the measuring signal and the direction of the temperature gradient one may infer the type of homogeneity.